U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-260 159

PHYTOPLANKTON FOUND IN THE KANSAS RIVER SYSTEM

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION
KANSAS CITY, MISSOURI

1969

I 67.2:
P56/2
287016
PB 260 159

PHYTOPLANKTON FOUND IN THE KANSAS RIVER SYSTEM

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

U.S. DEPARTMENT OF THE INTERIOR

Federal Water Pollution Control Administration

Missouri Basin Region
Kansas City, Missouri

1969

BIBLIOGRAPHIC DATA SHEET	1. Report No.	2.	3. Recipient's Accession No. PB-260 159
4. Title and Subtitle Phytoplankton Found in the Kansas River System			5. Report Date 1969 6.
7. Author(s) Ross E. Powers			8. Performing Organization Rept. No.
9. Performing Organization Name and Address Federal Water Pollution Control Administration, Kansas City, Mo. Missouri Basin Region.			10. Project/Task/Work Unit No. 11. Contract/Grant No.
12. Sponsoring Organization Name and Address			13. Type of Report & Period Covered 14.

15. Supplementary Notes

16. Abstracts

This is a complete listing of the phytoplankton found in the Kansas River System.

17. Key Words and Document Analysis. 17a. Descriptors

17b. Identifiers/Open-Ended Terms

Kansas River
*Phytoplankton
River basins
Aquatic plants

17c. COSATI Field/Group 8H

18. Availability Statement	19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages 15
	20. Security Class (This Page) UNCLASSIFIED	22. Price $3.50-3.00

1101.9

PHYTOPLANKTON FOUND

IN THE KANSAS RIVER SYSTEM

by

Ross E. Powers
Aquatic Biologist

U.S. DEPARTMENT OF THE INTERIOR
Federal Water Pollution Control Administration
Missouri Basin Region
Kansas City, Missouri

PHYTOPLANKTON FOUND IN THE KANSAS RIVER SYSTEM

Centric Diatoms

Cyclotella nana

C. atomus

C. Meneghiniana

C. pseudostelligera

C. glomerata

C. Kutzingiana

C. stelligeroides

Stephanodiscus Hantzschii

S. invisitatus

S. asterea v. minutula

S. alpinus

Melosira distans

M. distans v. alpigena

M. granulata

M. granulata v. angustissima

Biddulphia laevis

Pennate Diatoms

Achnanthes minutissima

A. lanceolata

Amphiprora alata

A. ornata

Asterionella formosa

Amphora montanum

A. submontanum

Cymbella sp.

Cymbella ventricosa

Gomphonema affine

G. angustatum

G. angustatum v. intermedia

G. angustatum v. obesa

G. gracile v. naviculoides

G. subclavatum

G. clevei

G. olivaceum

G. parvulum

Diploneis sp.

Diatoma vulgare

Gyrosigma fasciola

G. scalproides

Pleurosigma sp.

Pinnularia braunii

P. microstauron

Synedra ulna

Surirella palmerii

Surirella angustata

Surirella angustata

S. ovata v. salina

S. striatula v. 1.

Cymatopleura sp.

Cocconeis sp.

Caloneis sp.

C. amphisbaena

C. bacillum

Meridion circulare

Fragilaria intermedia

F. vaucheriae

Navicula mutica v. cohnii

N. pelliculosa

N. pupsula Fo. minutula

N. syommetrica

N. tantula

N. vancheriae v. densistriata

N. viridula v. argunensis

N. viridula v. linearis

N. v. viridula v. rostruta

N. accomoda

N. aszellus

N. caduca

Navicula cryptocephala

N. cryptocephala v. exilis

N. cryptocephala v. veneta

N. gracilis v. schizonemoides

N. menisculus

N. menisculus v. obtusa

N. canalis

N. cuspidata v. ambigua

N. tripunctata v. schizonemoides

N. vaucheriae

N. phgmaea

N. hungarica

N. lanceotala

N. pupula

N. mutica

Nitzschia acicularis

N. closterium

N. frustulum

N. holsatica

N. (palea)

N. filiformis

N. hungarica

N. amphibia

N. fasciculata

Nitzschia apiculata

N. paradoxa

N. tryblionella

N. gracilis

N. linearis

N. sigma

N. capitellata

N. clausii

N. romana

N. stagnorum

N. subcapitellata

N. tarda

N. umblicata

N. valdestriata

N. dissipata

N. frustulum

N. invicta v. lanceolata

N. palea

N. palea v. kützingiana

N. pseudoamphioxys

Green Coccoids

Actinastrum sp.

Ankistrodesmus sp.

A. falcatus

Chlorella sp.

Closteriopsis sp.

Closterium dianae

Coelastrum sp.

Crucigenia sp.

C. tetrapedia

C. irregularis

Dictyosphaerium sp.

Golenkinia sp.

Kirschneriella sp.

Micractinium sp.

Netrium sp.

Oocystis sp.

Pediastrum sp.

Scenedesmus sp.

S. opoliensis

S. quadnicauda

S. acuatus

S. dimorphus

S. acuminatus

Schroderia sp.

Selenastrum sp.

Staurastrum gracile

Tetraedron sp.

Tetrastrum sp.

Green Filamentons

Cladophora sp.

Gomontia codiolifera

Microspora sp.

Ophiocytium sp.

Palmogloea protuberans

Spirogyra

Stigeoclonium sp.

Blue-Green Coccoids

Agmenellum sp.

Anacystis sp.

Coelosphaerium sp.

Blue-Green Filamentons

Anabaena sp.

A. circinalis

Anabaenopsis sp.

Lyngbia sp.

Oscillatoria sp.

O. subtilissma

Phormidium tenue

Rhaphidiopsis sp.

Spirulina sp.

Green Flagellates

Chamydomonas - Carteria sp.

Chlamydomonas globosa

C. incerte

C. paradoxa

C. reinhardii

Chlorogonium sp.

Collodictzon sparsevacuolatum

Endorina elegans

Gonium pectorale

Lobomonas ampla

L. bernardinensis

Phacotus sp.

P. lenticularis

Pteronomas cruciata

Pandorina morum

Mesostigms viride

Englena acus

E. anabaena

E. chadefaudii

E. clavata

E. ehrenbergii

E. intermedia

E. oxyuris

Englena pisciformis

E. polymorpha

E. sociabilis

E. tripteris

E. viridis

Anisonema strenum

Heteronemu abruptum

H. sacculus

Notosolenus obliquus

Peranema pleururium

Lepocinclis pocinclis

L. ovum

L. texta

Phacus longicanda v. attennata

P. pleuronectes

P. pyrum

P. tortus

P. triqueter

Trachelomonas abrupta

T. bulla

T. crebea

T. hispida v. crenulatocollis

T. hispida

T. lacustris

T. oblonga

T. scabra

T. stokesiana

T. superba

T. varians

T. verrucosa v. granulosa

T. volvocina

T. volvocinopsis

T. zorensis

T. verrucosa

Brown Flagellates

Ceratium sp.

Cryptomonas erosa

C. marssonii

C. tetrapyrenoidosa

Cyathomonas truncata

C. hyalina

Gymnodinium sp.

Peridinium sp.

Mallomonas sp.

Urceolus alenizini

Monas sp.

Rhodomonas sp.

REFERENCES

1. TIEMEIER, OTTO W.

   1951. Studies on Kanapolis Reservoir in 1950. Trans. Kansas Academy of Science. 54(2): 175-189.

2. DAMANN, KENNETH E.
   1950. Missouri River Basin Plankton Study. Fed. Sec. Agency, PHS, Environmental Health Center, Cincinnati, Ohio.

3. PHS Water Pollution Surveillance System Annual Compilation of Data, October 1, 1962-September 30, 1963. Missouri River Basin, Vol. 7. U.S. Dept. of HEW, PHS, Div. of Water Supply and Pollution Control, Washington, D.C.

4. Kansas River Survey for the Tecumseh Plant of the E.I. duPont deNemours and Company. Acad. of Nat. Science of Philadelphia. Depart. of Limnology, 19th and the Parkway, Philadelphia 3, Pa.

5. Unpublished data by:
   STEWART, R. KEITH
   Biological and Chemical Unit, Tech. Advis. and Invest. Activities, FWPCA, Cincinnati, Ohio.

   THOMAS, NELSON A.
   Biological and Chemical Unit, Tech. Advis. and Inves. Activities, FWPCA, Cincinnati, Ohio.

   WEBER, CORNELIUS I.
   Water Quality Activities, Div. of Pollution Surveillance, FWPCA, Cincinnati, Ohio.

   POWERS, ROSS E.
   Biology Unit, Missouri-Souris-Red River Basins Project, FWPCA Kansas City, Missouri